

WHAT IS CLAIMED IS:

1. A liquid crystal device comprising:
two substrates; and
nematic liquid crystal sandwiched between said
substrates;

wherein the direction of uniaxial orientation of
upper and lower substrates is either parallel or anti-
parallel;

and wherein temperature change of the retardation
value of said liquid crystal device is reduced by changing
the orientation state of liquid crystal molecules so as to
compensate for change in the birefringence of said liquid
crystal composition due to changes in temperature.

2. A liquid crystal device according to Claim 1,
wherein the refractive index anisotropy of a liquid crystal
composition having said nematic liquid crystal as the
primary component thereof at 30°C is 0.150 or more, and the
pre-tilt angle of liquid crystal molecules at 30°C at the
substrate interface is 10° or more and 45° or less.

3. A liquid crystal device according to either Claim
1 or 2, wherein the orientation of said upper and lower
substrates is provided by an organic orientated film having

a vertical or high pre-tilt angle, providing uniaxiality.

4. A liquid crystal device according to any of the Claims 1 through 3, wherein switching devices are used for driving.

5. A liquid crystal device according to any of the Claims 1 through 4, wherein black is displayed by performing phase compensation.

6. A liquid crystal device according to any of the Claims 1 through 5, using a normally-white mode wherein the high-voltage side of the driving voltage is used as black.

7. A display panel comprising an array of a plurality of liquid crystal devices, each of said liquid crystal devices comprising:

two substrates; and

nematic liquid crystal sandwiched between said substrates;

wherein the direction of uniaxial orientation of upper and lower substrates is either parallel or anti-parallel;

wherein temperature change of the retardation value of said liquid crystal device is reduced by changing the

orientation state of liquid crystal molecules so as to compensate for change in the birefringence of said liquid crystal composition due to changes in temperature.

8. A liquid crystal device according to Claim 1, wherein said liquid crystal device is a liquid crystal display device.

9. A liquid crystal device according to Claim 1, wherein said liquid crystal device is an ECB (Electrically Controlled Birefringence) type.

10. A liquid crystal device according to Claim 1, wherein said liquid crystal device is a splay orientation type.

11. A liquid crystal device according to Claim 1, wherein said liquid crystal device is a bend orientation type.